

COUNCIL ON ENVIRONMENTAL QUALITY  
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WASHINGTON, D. C. 20006

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January 9, 1973

To: EPA - Dr. Attaway  
Mr. Harrington  
Dr. Jones  
Mr. Mansfield  
Interior - Dr. Linduska  
Dr. Skoog  
Mr. Sturgill

From: CEQ - Jack Perry *JP*

Soviet Proposals

I attach Soviet proposals which were given to Dr. Talbot during his trip to Moscow in December and have just been translated for us by the State Department.

cc: Chairman Train  
Mr. Busterud  
Dr. Willard  
Mr. Plehn  
Dr. Talbot  
State: EUR/SOV - Mr. Mainland  
EUR/SES - Mr. Ward  
SCI/EN - Mr. Kulick  
Amembassy Moscow - Dr. Tech

*file - environ  
air pollution from  
1/1*

*Industrial installations,  
environment pollution from*

SUBJECTS OF COOPERATION  
FOR PROJECT I. 3 "TECHNOLOGY FOR PREVENTING  
AIR POLLUTION FROM INDUSTRIAL ENTERPRISES"

- Subject 1. Cleaning stack gases of sulfur dioxide at electric power stations burning sulfurous solid and liquid fuels.
- Subject 2. Cleaning stack gases of electric power stations from particulates.
- Subject 3. Desulfurization of liquid and solid fuel by thermochemical means.
- Subject 4. Internal-cycle desulfurization of highly sulfurous, ash-ridden fuels at electric power stations by preliminary gasification.

Program of Meeting

Moscow, March 11-25, 1973

Purpose of Meeting: Determination of subjects of cooperation on problem I, "Prevention of air pollution": Section 3, "Technological means of preventing air pollution from industrial installations", Section 4, "Emissions from means of transportation"

- March 11: Arrival of U.S. delegation
- March 12: General discussion of Problems I. 3, I. 4  
Presentation and discussion of U.S. and USSR reports on subjects 1 and 2, above
- March 13: Presentation and discussion of U.S. and USSR reports on subjects 3 and 4, above
- March 14-15: Presentation and discussion of U.S. and USSR reports on I. 4 "Emissions from transportation causes"
- March 16: Visits to organizations and enterprises
- March 17-18: Rest and cultural activities
- March 19-22: Visits to organizations and enterprises

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- March 23: Discussion of subjects of cooperation and projects under I. 3 and I. 4
- March 24: Protocol signing
- March 25: Departure of U.S. delegation

List of Reports by the Soviet Side at the Meeting

Problem I. 3

1. Development of methods and apparatus for cleaning stack gases of sulfur dioxide at electric power plants burning solid and liquid fuel.
2. Development of methods for cleaning stack gases of particulates.
3. Development of industrial methods for cleaning motor fuels of sulfur.
4. Problems of desulfurization of boiler fuels.
5. Prevention of emission of ashes, sulfur and nitrogen oxides, at thermal power plants by the method of preliminary fuel gasification.

Problem I. 4

1. Establishment of scientific research and development of a set of measures aimed at lowering the toxicity of means of transportation with internal combustion engines.
2. Development of special devices and perfection of fuel apparatus guaranteeing a lowering of toxicity of engines.
3. Development of recommendations for lowering the toxicity of engines, used in places with limited ventilation.

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List of Enterprises and Organizations to be Visited by the  
U. S. Delegation

1. Moscow -- State Scientific Research Institute for Gas Purification in Industry and Sanitation [NIIOGAZ]  
High Temperature Institute, Academy of Sciences, USSR;  
VNIINP (?)
2. Semibratovo -- Semibratovo Branch of NIIOGAZ;  
Yaroslavl Oblast Semibratovo Plant for Gas-Purifying Equipment
3. Leningrad -- Central Scientific Research Institute for Fuel Equipment [TsNITA].
4. Vladimir -- Vladimir Tractor Factory
5. Yaroslavl -- New Yaroslavl Petroleum Reprocessing Plant
6. Shchekino -- Shchekino Chemical Combine, Experimental Installation for the Gasification of Fuel Oil

List of Participants in the Meeting

Delegates:

- V. A. Anikeyev - V/O "Soyuzgazoochistka" -- head of delegation  
E. A. Kazantsev - V/O "Soyuzgazoochistka"  
B. F. Podoshevnikov - NIIOGAZ  
E. D. Radchenko - VNIINP  
S. A. Khristianovich - IVTAN (?), USSR  
V. M. Maslennikov - IVTAN, USSR  
A. A. Fomin - NILTD (?)

Experts:

- V. I. Lazarev - NIIOGAZ

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Yu. N. Brodskiy - NIIOGAZ

L. N. Osipov - VNIINP

S. P. Rogov - VNIINP

V. V. Manshilin - VNIIPN

A. V. Agafonov - VNIINP

Yu. A. Vyskubenko - IVTAN, USSR

A. A. Timofeyevskiy - NiltD

O. I. Demochka - TsNITA

Note: The proposals under Project I. 3, subjects 3, 4, and Project I. 4 are based on the proposals of VNIINP, IVTAN, USSR, and the Ministry of Agriculture.

[signature]

V. Anikeyev

Head of the All-Union  
Association "Soyuzgazoochistka"

## PROPOSALS

OF THE SOVIET SIDE FOR CARRYING OUT PROJECT V.1,  
"CONSERVATION OF RARE AND ENDANGERED SPECIES OF  
ANIMALS AND PLANTS, AND GENERAL WILDLIFE  
CONSERVATION AND MANAGEMENT"

### 1. Sections of the project

A. Inventory of rare and endangered species of animals and plants, study of their status and reasons for fluctuations in their number.

B. Works on conservation and restoration of stocks of rare species of animals and plants.

C. Stocks, biology, migrations, and methods of conserving migrating wildlife common to the U.S. and the USSR as well as species between the Asian and American populations of which there might be an exchange.

D. Study of the ecology, conservation, and management of stocks of species common to the U.S. and the USSR (but not having common populations) and ecologically related (vicarious) species.

E. Research and conservation of species of rare plants common to the U.S. and the USSR and ecologically related.

### 2. Forms of Cooperation

Section V.1.A.: Work will be conducted on a national scale.  
To be recommended:

a) exchange of scientific information, including material from national "Red Books", express-information on investigations being carried out, etc.

b) scientific symposiums on study and conservation of rare animals and plants, alternately in the U.S. and the USSR.

Section V.1.B: Work will be conducted on a national scale. Its basic directions: perfection of methods of taking stock of rare species; of methods of research into the ecology of rare species; of methods of marking and spotting marked animals, methods of breeding rare animals, bringing rare plants under cultivation and subsequent re-acclimatization, perfection of systems to conserve

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To be recommended:

- a) exchange of scientific information;
- b) mutual exchange of methods and technological means of research;
- c) mutual familiarization with the methods and results of work, with visits to specific sites;
- d) conducting working symposiums alternately in the USSR and the U.S.A., including a demonstration of the methods and results of the study, preservation and propagation of wild flora and fauna;
- e) conducting working meetings of specialists in specific areas of work;
- f) exchange of trainees.

Section V.1. C: Work carried out according to coordinated programs.  
To be recommended:

- a) an estimate of the numbers of migrating birds at their places of nesting, wintering and moulting, according to agreed programs of the Soviet and American sides, by means of air and ground counts;
- b) a study of the population ecology of migrating birds by both sides, according to agreed programs; in particular one should discuss the advisability of measures taken for the following purposes:

-- research conducted by the American side into the ecology of the white-necked goose and the black barnacle goose in the regions of nesting and wintering -- research by the Soviet side into the seasonal migration and the population dynamics of both species in the USSR;

-- research by the American side on the possible influence of oil exploration and extraction on the habitat and population of the white-necked geese and the black barnacle geese;

-- collection of scientific information on the biology of the white goose: on the dynamics of goose stocks at nesting and wintering grounds; on results of reproduction and the percentage of young in the fall population in various years; on results of ringing; on distribution of immature birds; on the number of game birds and their age distribution.

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c) study of migration by means of visual observations and marking by the U. S. and USSR sides;

d) receiving scientific information from groups on topics VI.1 and VI.2, concerning the effect of water pollution on organisms on the Pacific Coast;

e) exchange of scientific information on other aspects of the work;

f) conducting symposiums on research and conservation of migrating animals of N. E. Asia and N. W. America;

g) holding working meetings of specialists for working out agreed recommendations on rational utilization and conservation of birds that migrate between the USSR and the U. S. or have common wintering and roaming areas;

h) conclusion of a U. S. -USSR agreement on the conservation of birds migrating between the U. S. and USSR.

Section V.1.D: Work is carried out on national scale according to coordinated programs.

To be recommended:

a) study of population ecology of general and ecologically related species (European and North American bison, reindeer, red deer, elk, wolves, brown bears, swans, etc., waterfowl, cranes, birds of prey, etc.), by coordinated programs;

b) mutual familiarization of Soviet and American specialists with achievements in conservation and methods of management of stocks of general and ecologically related species, in particular:

-- mutual familiarization with works in the field of biology, utilization, conservation, and propagation of waterfowl and with their chief habitats -- including U. S. prairies and USSR steppes.

-- familiarization of Soviet specialists with experiences in the conservation of American cranes in the U. S., and visits to the places of crane flights out of wintering places;

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-- familiarization of Soviet specialists with research carried out in the U. S. on the ecology and migration of swans, in particular with the work methodology;

-- familiarization of Soviet specialists with the work being done in the U. S. A. on studying the effect of pesticides on the propagation of birds;

-- familiarization of American specialists with the achievements of the USSR in the replenishment of bisons, antelopes, elk, sables, and with the work of studying the ecology of beavers, muskrats, wood grouse, and other valued species;

-- familiarization of Soviet specialists with the achievements of the U. S. A. in the protection of bison and with research on brown bears, snow sheep, white-tailed deer, beavers, and other valued species;

-- reciprocal familiarization with research on the wild caribou and the interrelation between the wild and the domestic reindeer;

-- reciprocal familiarization with the work of studying rare species of animals and plants in arid and sub-arid regions;

-- joint research on the ecology of protected species in Yellowstone National Park (U. S. A. ) and the Caucasian Preserve (USSR) - Project V. 3;

-- the holding of work symposiums on the protection and regulation of the populations of rare and hunted animals;

-- exchange of scientific information.

Section V.1.E.: Work is to be carried out on a national scale and under coordinated programs. Its basic directions are: the study of biology, ecology, and dynamics of the populations of rare plants; the development of methods of protection and replenishment of typical or unique phytocenosis, in which rare species of plants are preserved; the basis of the methods of replenishing stocks of rare species.

To be recommended:

a) exchange of scientific information;

b) exchange of methods of studying and preserving general and ecologically related species of rare plants;

c) holding of work symposiums.

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Program

Stay of Dr. Talbot (U.S.A.) in Moscow (Dec. 11-16, 1972)

[List of activities during the above period]

PROPOSALS OF THE SOVIET SIDE CONCERNING THE PROGRAM OF MEETINGS BETWEEN SPECIALISTS OF THE USSR AND THE USA ON PROJECT V.2., "PERMAFROST ZONE AND ECOSYSTEMS OF THE TUNDRA", OF THE AGREEMENT BETWEEN THE USSR AND THE U.S.A. IN THE FIELD OF ENVIRONMENTAL PROTECTION

1. To make provision in the program of meetings for a review of the basic directions of cooperation under Project V.2.:
  - Influence of the oil and gas extraction industry, of industrial pollution, of the utilization of caterpillar tractor transport, and of other human factors on the ecosystems of the tundra and permafrost zone.
  - Pesticides and their influence on wildlife of the tundra and permafrost zones. Development of measures for preventing their harmful effects.
  - Development, taking into account the specifics of the natural conditions of the North, of a system of environmental protective measures which will assure the preservation of economically valuable types of wildlife. Composition of unified programs of research.
  - Perfecting of a methodology for determining the populations of terrestrial mammals.
  - Study of the polar bear and perfecting means for its protection.
  - Study of the wild northern reindeer and means for the rational utilization of the reindeer stocks.
  - Study of water birds of the North in the USSR and the U.S.A., development of methods for their protection and rational utilization.
2. The Soviet side will prepare informational documents on the basic directions of the work, with a view to familiarizing those participating in the meeting with the experience of the USSR in the field of environmental protection and utilization of resources of game wildlife of the North.

It is anticipated that the American specialists will familiarize those participating in the meeting with the experience of the U.S.A. in its work in this field.

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3. As a result of the meeting the following should be agreed upon:

- Basic directions for work on Project V. 2.
- Organizations to be called on by each side for participation in the work, in conformity with the basic directions of the work.
- Methodology for research on projects along the accepted lines.
- Concrete tasks for individual sections of the project, time frames and places for carrying out the work.
- Other questions which may arise during the discussion of the basic directions and methodology of the projects.

4. Organizational forms of cooperation in specific sections of the project will be agreed upon during the meeting of USSR and U.S.A. specialists, keeping in mind an exchange of information, methodologies, the conduct of research on the agreed programs, and the conduct of joint research, acceptance of trainees, holding of symposia, and so on.

5. Working group of the Soviet side:

V. D. Denisov -- Chief (Main Conservation Administration, Ministry of Agriculture, USSR)

S. M. Uspenskiy -- Deputy Chief (TSLOP, Ministry of Agriculture, USSR)

V. A. Zabrodin -- (Scientific Research Institute for Agriculture of the Far North, Siberian Department, All-Union Academy of Agricultural Sciences)

V. D. Kontrimavichyus -- (Scientific Research Institute for Biological Problems of the North, DVTS, Siberian Department, Academy of Sciences, USSR)

E. E. Syroechkovskiy -- (Central Scientific Research Laboratory, Main Administration of Hunting and Game Preserves, RSFSR)

B. A. Tikhomirov -- (Biological Institute, USSR)

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6. The lead organizations which are responsible for the fulfillment of the work on the Project:

- State Inspection for Environmental Protection of the Main Administration for Nature Conservation, Game Preserves, and Hunting of the USSR Ministry of Agriculture;
- Central Laboratory for Environmental Protection of the USSR Ministry of Agriculture.

## PROPOSALS

### OF THE SOVIET SIDE FOR THE PROGRAM OF THE SPECIALISTS' MEETING ON IMPLEMENTING U. S. -USSR ENVIRONMENTAL PROTECTION AGREEMENT, PROJECT V.3 "ORGANIZATION OF NATURE PRESERVES"

1. The program of the meeting is to include consideration of the following areas:

- Methods of preserving natural ecosystems under conditions of growing anthropogenic influence on nature preserves;
- Organization in nature preserves of comprehensive stationary scientific research;
- Methods of studying population dynamics and the condition of the population of animals and plants in the territories of preservation and in buffer zones;
- Participation of nature preserves and national parks in education and enlightenment, and the reception and serving of visitors;
- Basic directions of an agreed work program of USSR nature preserves and U. S. national parks located in similar ecosystems;
- Principles of classifying protected natural territories and objects.

2. The Soviet side will prepare information reports on areas of the project, with the object of briefing participants in the meeting on the work experience of USSR nature preserves and prospects for cooperation between the USSR and the U. S. A.

It would be desirable at the meeting to hear reports by U. S. specialists, briefing Soviet specialists on the work experience of the U. S. in the project areas, particularly on the methodology of work.

3. As a result of discussion on the program of the meeting, the following should be recommended:

- Enumeration of methods of preserving ecosystems which would be appropriate for developing and testing in the USSR and the U. S. A.;
- Model program of comprehensive stationary scientific research in nature preserves;

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- Enumeration of methods for studying population dynamics and the population conditions of animals and plants which would be appropriate for use in protected territories of the USSR and the U.S.A.;
  - Organizational working forms of nature preserves and national parks in the fields of education, enlightenment and tourism;
  - Methods of determining the tourist capacity of nature areas;
  - Basic directions of the agreed scientific research program of the Caucasus State Nature Preserve (USSR) and Yellowstone National Park (U.S.A.);
  - Agreed objective classification indicators of forms and categories of protected territories of the USSR and the U.S.A.; the possibility of unification of the structure of nature-preserve holdings. Contents of a book of unified systems of territories of nature preserves;
  - Other areas of the project which may arise in the course of the discussion;
  - Nature preserves, national parks and other organizations which should be brought into joint work on the project in the USSR and the U.S.A.;
  - Organizational forms of cooperation in specific areas of the project: joint research, research on agreed programs, forms of exchanging information, placement of trainees, visits to nature preserves and national parks, working symposiums, etc.
5. Organizations in charge:

- State Nature Preserves Division of the Chief Administration for Nature Conservation, Nature Preserves and Hunting, Ministry of Agriculture of the USSR;
- Central Laboratory of Nature Conservation, Ministry of Agriculture of the USSR;
- Leader of the Soviet side of the working group of Project V. 3 is V. V. Krinitskiy, Chief of the Office of State Nature Preserves and Wildlife Sanctuaries, Ministry of Agriculture, USSR